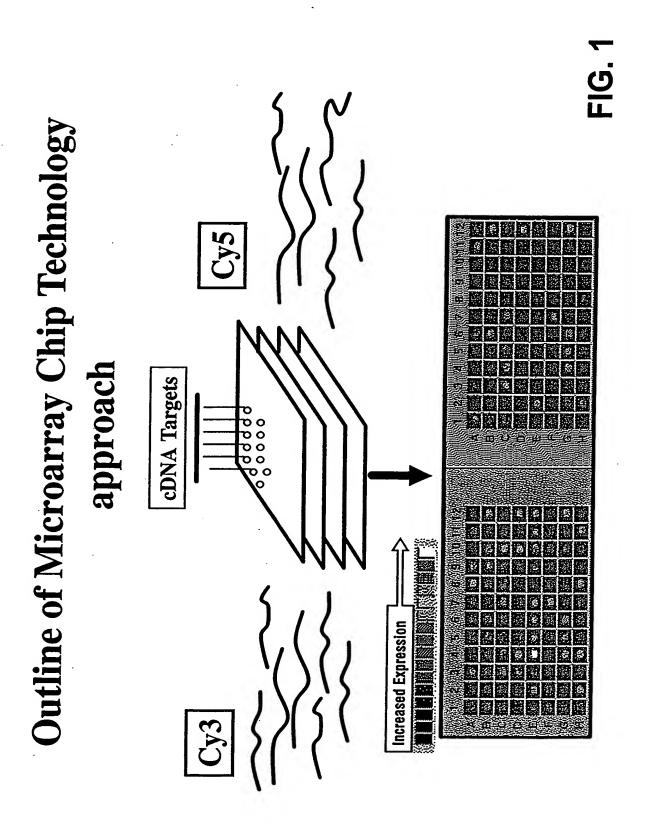
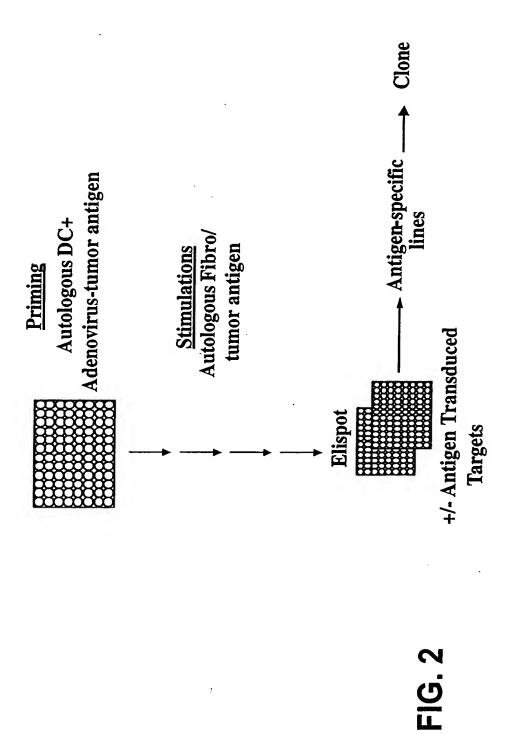
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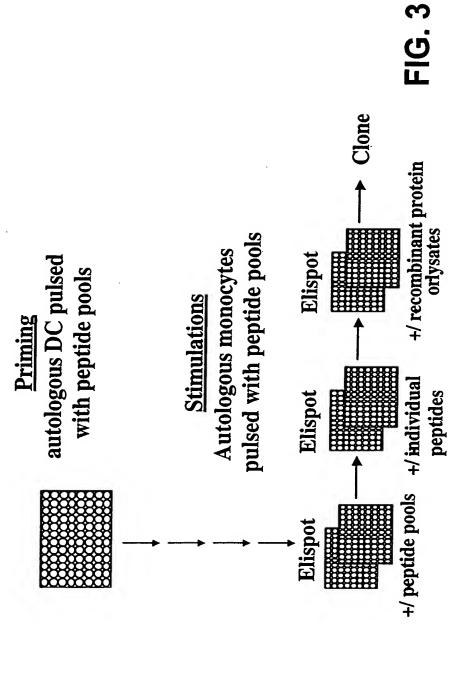
1/15



General protocol for in-vitro whole gene CD8 T cell priming







LEUKEMIA/LYMPHOMA CHIP #3: PROBES USED IN ANALYSIS

Cy3 Probe		Cy5 Probe	
Tissue	RNA#	RNA#	Tissue
Lymphoma, T cell	952	SPACT74	Kidney N
Lymphoma, B cell	955	SPACT81	
Lymphoma, B cell		SPACT78	Lung N
<u>Lymphoma</u>		SPACT42	Brain N
Lymphoma, Hodgkins		138598B	Skin N
Lymphoma, Hodgkins		SPACT49	Bone Marrow N
Lymphoma, B cell		888	PBMC resting
Lymphoma, T cell		SPACT55	Stomach N
Lymphoma, Hodgkins see RNA 959	CL153	SPACT70	Thymus N
Lymhoma, B cell	CL152	SPACT75	Skeletal Muscle N
Lymphoma, B cell see RNA 958	CL155	SPACT73	
Lymphoma, B cell	944	243502B	Esophagus N
Lymphoma, B cell	<u>958</u>		Colon N
Lymphoma, B cell	954	SPACT65	Small Intestine N
<u>Lymphoma</u>	960	779B	Trachea N
Lymphoma, T cell	957	S9327328	Bladder N
Lymphoma, B cell	914B		
Lymphoma, B cell	913		
Lymphoma, B cell	944B		
Lymphoma, B cell/failed	903		

GREEN: Tumor probes where gene expression would be desired. RED: Normal essential tissue probes where gene expression is to be avoided. BLACK: Normal tissue probes where gene expression is acceptable.

FIG. 4

Hematology Therapeutic Ab Candidates

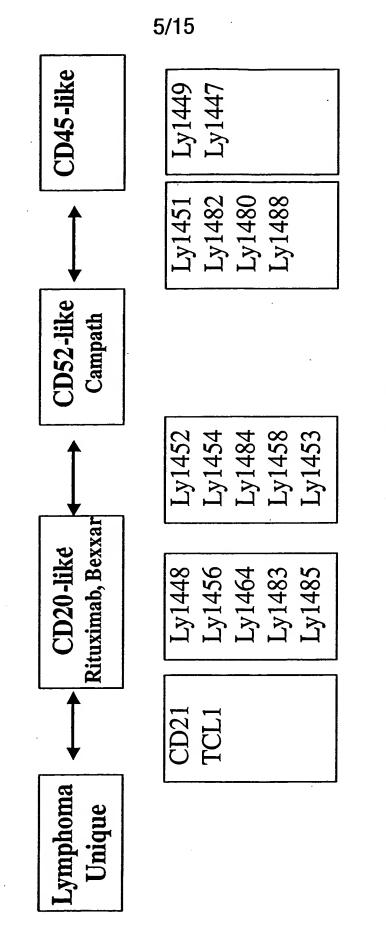


FIG. 5

a. TMpred Report for Ly1484 Long

RDFQSEVLLSAMELFHMTSGGDAAMFRDGKEPQPSAEAAAAPSLANISCF TQKLVEKLYSGMFSADPRIITLLFITLHITMVVIE PASSORDEVLSPLVSSL NIXVIIX CLERIT CONTROL OF THE PROPERTY OF THE HCLLLLNERSYPEGFGLEPKPRMSTYHQVFLSPNEDVKEKREDLPSLSDV QHNIQKTVQTLWQQLVAQRQQTLEDAFKIDLSVKPGEREVKIEEVTPLWE ETMLKAWQHYLASEKKSLASRSNVAHHSKVTLWSGSLSSAMKLMPGRQAK DPECKTEDFVSCIENYRRRGQELYASLYKDHVQRRKCGNIKAANAWARIQ **EQLFGELGLWSQGEETKPCSPWELDWREGPARMRKRIKRLSPLEALSSGR** HKESQDKNDHISQTNAENQDELTLREAEGEPDEVGVDCTQLTFFPALHES LHSEDFLELCRERQVILQELLDKEKVTQKFSLVIV@@#LVST@VILLF@H@ HIPYTGANIPULSPHEDVYGURHERANISDEFURNLGSVDRSHDHVSGQGHS WADNIEUR ON FULLOD LALEIFFINGYSKIPLV FYNNDRSKAFKSFÖSFQP SLKGKATSEDTLNLRRYPGSDRIMLQKWQKRDISNFEYLMYLNTAAGRTC NDYMQYPVFPWVLADYTSETLNLANPKIFRDLSKPMGAQTKERKLKFIQR FKEVEKTEGDMTVQCHYYTHYSSAIIVASYLVRMPPFEQAFCALQ@@SFD VADRIVIPHSVKSEWIESASRENINSDVREEKEREPERVALPERRUENEWEREEMQ DEEN/KEDVOJEDE/WADEDERKIPTOSTEHRKANI-SDEVSANICHH WIDGETEREKKŌ OGENANOUM MENTER MANAGEMENT PROPERTY OF A STREET OF A THE THE PROPERTY OF THE PROPER THE STREET OF THE PROPERTY OF GLGSYGSDKWLWHTHNWAWGRGLGWGPSPFFFLVFSGFFFVVCVWHLSM THE THE THE PROPERTY OF THE PR WHITE PARTY OF THE PROPERTY OF GHEGYTHECCHYNDHEOTHTHECOTHHECOTHHECHYNWIGHEDWIMSWEGHERDC HANCE OF THE PROPERTY OF THE P सम्बद्धाः (SEQ ID NO: 120)

Black = Intracellular, Red = Transmembrane, Blue = Bruraeshular

b. TMpred Report for Ly1484 (short)

MLQKWQKRDISNFEYLMYLNTAAGRTCNDYMQYPVFPWVLADYTSETLNL
ANPKIFRDLSKPMGAQTKERKLKFIQRFKEVEKTEGDMTVQCHYYTHYSS
AITWASYLWRMPPFTQAFCALQ GGSFDWADRMFIISWASTWASRENMSD
WREIGHFERFYWLPEFLIGHUNGWEFGEMQDGTWLGDVQLPPWADGDRAGFUS
LHRIVAUESDFVSANLHIIWDDLIFGMXQQGFAYAWDAWNDFIIPMFMGDRADL
SSTEDPLIAGSTULGFVSNFGQWEKQLFFTERFIPARTYMGALPGRADL
SSTEDPLIAGSTULGFVSNFGQWEKQLFFTERFIPARTYMGALPGRADL
SLPGIPQPFFYSSLQSTLRESQWEWNDMWLFSLGSESPIKGANGHDVSTUEWF
LAWERNKWLLPPLIMMRTPSWGFDDFSGGLGSMGSDKWLMTFENLAYWGRG
LAWERNKWLLPPLIMMRTPSWGFDDFSGGLGSMGSDKWLMTFENLAYWGRG
LGAWGPSPTTTVPSGTERFWVGWJELSMTKGRFRGLRIFGALWGHTPGAWTG
LGAWGPSPTTTVVSGSQDGTTCTWDLADHLFHWTTLPAHTEGTSATTTSDVSG
LAAASWUFSTLLVSGSQDGTTCTWDLADHLFHWTTLPAHTEGTSATTTSDVSG
LAAASWUFSTLLVSGSQDGTTCTWDLADHLFHWTTLPAHTEGTSATTTSDVSG
LAAASWUFSTLLVSGSQDGTTCTWDLADHLFHWTTLPAHTEGTSATTTSDVSG
TTVVSGAGAHLLSUMNWMGDPLAASITTTAWGPBFALTTGGGTWJEGTAWGANLATLSR
TTTGSQDGMWXWWXTTEDWKMSVFGTPAGFERAGFERLAGQPPSPRGHIWJHWJALLATLSR
TTTGSQDGMWXWWXTTEDWKMSVFGTPAGFERAGFERLAGQPPSPRGHIWJHWJALLATLSR
TTTGSQDGMWXWWXTTEDWKMSVFGTPAGFERAGFERLAGQPPSPRGHIWJHWJALLATLSR
TTTGSQDGMWXWWXTTEDWKMSVFGTPAGFERAGFERLAGGPPSPRGGTFGWSADG
GSCOID NO: 121)

Black = Intracellular, Red = Transmerand, Blue = Exuracerrular

Ly1434 has 646 amino acids and 1 Fransmembrane Domains

Transmembrane Domain 1: 102 - 123 Score: 1.3521

FIG. 6 (cont.)

ANALYSIS RESULTS OF THE PROGRAM TSITES.

:... ::...

> are the results of the analysis of the file--> LY1484~1.TXT Beginning with residue: 1 and ending with residue: 1270 AMPHI Window size: 11 These

A-AMPHI mid points of blocks. R-Residues matching the Rothbard/Taylor motif D-Residues matching the IAd motif. d-Residues matching the IEd motif.

8/1 52	5	
75	LFIL	•
70	PRHIL	•
65	FSADI RR	•
9 . 09	YSGM AAAAA RRRRR	•
55	RDFQSEVLLSAMELFHMTSGGDAAMFRDGKEPQPSAEAAAPSLANISCFTQKLVEKLYSGMFSADPRHILLFIL GOOFTGSEVLLSAMELFHMTSGGDAAMFRDGKEPQPSAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
20	SCFT	•
45	PSLANI AA. AAA	•
40	AEAAAA AA DODDDO	•
35	PQPSZ	•
30	RDGKE	•
25	GDAAMI	•
20	IMTSG	•
15	AMELFI AAAAA RRRI	•
10	VLLS.	•
(SEQ ID NO: 120) 5	RDFQSEVLLSAMELFHMTSGGDAAMAAAAA	•

FIG. 7

	9/15		
155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 HCLLLINERSYPEGFGLEPKPRMSTYHQVFLSPNEDVKEKREDLPSLSDVQHNIQKTVQTLWQQLVAQRQQTLED	305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 DPECKTEDFVSCIENYRRGQELYASLYKDHVQRRKCGNIKAANAWARIQEQLFGELGLWSQGEETKPCSPWELD	380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 WREGPARMRKRIKRLSPLEALSSGRHKESQDKNDHISQTNAENQDELTLREAEGEPDEVGVDCTQLTFFPALHESAAAAAAAAAAAAAAAA	FIG. 7 (cont.)

5 480 485 490 495 5(KVTQKFSLVIVQGHLVSEGVLLFGI	530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 ISDPFIFNLCSKDRSTDHYSCQCHSYADMRELRQARFLLQDIALEIFFHNGYSKFLVFYNNDRSKAFKSFCSFQPAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 SLKGKATSEDTLNLRRYPGSDRIMLQKWQKRDISNFEYLMYLNTAAGRTCNDYMQYPVFPWVLADYTSETLNLAN AAAAA AAAA BAAAA BDDDDD BDDDDD BDDDDD	680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 PKIFRDLSKPMGAQTKERKLKFIQRFKEVEKTEGDMTVQCHYYTHYSSAIIVASYLVRMPPFTQAFCALQGGSFD AAAAAAAAAAAAAA AAAAAAAAAAAAAAAA

10/15

FIG. 7 (cont.)

		11/15	
755 760 765 770 775 780 785 790 795 800 805 810 815 825	AAAAAAAA AA AAAA AAAAAA	RKALESDFVSANLHHWIDLIFGYKQQGPAAVDAVNIFHPYFYGDRMDLSSITDPLIKSTILGFVSNFGQVPKQLF RRALESDFVSANLHHWIDLIFGYKQQGPAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 TKPHPARTAAGKPLPGKDVSTPVSLPGHPQPFFYSLQSLRPSQVTVKDMYLFSLGSESPKGAIGHIVSTEKTILA AAAAAAAAA RRRRR DDDDDD DDDDDD DDDDDDD DDDDDD

FIG. 7 (cont.)

	-	12/15	
980 985 990 995 1000 1010 1015 1020 1025 1030 1040 1045 1050 VERNKVLLPPLWNRTFSWGFDDFSCCLGSYGSDKVLMTFENLAAWGRCLCAVCPSPTTIVTSGTSTVVCVWELSM	1055 1060 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125 TKGRPRGLRLRQALYGHTQAVTCLAASVTFSLLVSGSQDCTCILWDLDHLTHVTRLPAHREGISAITISDVSGTI TKGRPRGLRLRQALYGHTQAVTCLAASVTFSLLVSGSQDCTCILWDLDHLTHVTRLPAHREGISAITISDVSGTI AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1130 1135 1140 1145 1150 1155 1160 1165 1170 1175 1180 1185 1190 1195 1200 VSCAGAHLSLWNVNGQPLASITTAWGPEGAITCCCLMEGPAWDTSQIIITGSQDGMVRVWKTEDVKMSVPGRPAG A. AAAAAAAAA. RR. RRRR D. DDDDDDD. DDDDDDD. DDDDDDD.	1205 1210 1215 1220 1225 1230 1235 1240 1245 1250 1255 1260 1265 1270 1275 EEPLAQPPSPRGHKWEKNLALSRELDVSIALTGKPSKTSPAVTALAVSRNHTKLLVGDERGRIFCWSADG

FIG. 7 (cont.)

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LY1484~2.TXT the analysis of the file-1 and ending with residue: These are the results of Beginning with residue: 1 AMPHI Window size: 11

TSITES

PROGRAM

THE

OF

RESULTS

Rothbard/Taylor motif IAd motif. IEd motif. of blocks. A-AMPHI mid points c R-Residues matching D-Residues matching d-Residues matching

the the

(SEQ ID NO: 121)

13/15

14/15

230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 KQQGPAAVDAVNIFHPYFYGDRMDLSSITDPLIKSTILGFVSNFGQVPKQLFTKPHPARTAAGKPLPGKDVSTPV AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 SLPGHPQPFFYSLQSLRPSQVTVKDMYLFSLGSESPKGAIGHIVSTEKTILAVERNKVLLPPLWNRTFSWGFDDF AAAAAA AAAAAA DDDDDDD D	380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 SCCLGSYGSDKVLMTFENLAAWGRCLCAVCPSPTTIVTSGTSTVVCVWELSMTKGRPRGLRLRQALYGHTQAVTC AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 LAASVTFSLLVSGSQDCTCILWDLDHLTHVTRLPAHREGISAITISDVSGTIVSCAGAHLSLWNVNGQPLASITT AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIG. 8 (cont.)

ĺ	5/	1	5

AWGPEGAITCCCLMEGPAWDTSQIIITGSQDGMVRVWKTEDVKMSVPGRPAGEEPLAQPPSPRGHKWEKNLALSR AAAAAAAA RRRRRRR DDDDDDD O 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 ELDVSIALTGKPSKTSPAVTALAVSRNHTKLLVGDERGRIFCWSADG DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
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FIG. 8 (cont.)

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